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TCS - 7914/65  
IB - 173/65  
6 May 1965  
Copy # 1

25X1A

MEMORANDUM FOR: Chief, Manufacturing and Services Division, ORR  
ATTENTION : [REDACTED] MS/CST  
THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS  
FROM : Chief, Photographic Intelligence Division, CIA  
SUBJECT : Voronezh Aircraft Engine Plant No. 154, Voronezh, USSR  
REFERENCES : (1) ORR Requirement No. C-RR5-82,309  
(2) CIA/PID Project No. 30341-5

1. This memorandum is in response to the above referenced requirement requesting estimates of (1) the heights of designated buildings as shown in NPIC Report No. R-924/64, (2) the linear footage of highway within the plant and other data relevant to obtaining a general estimate of the construction cost of Voronezh Aircraft Engine Plant No. 154.

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2. The Voronezh Aircraft Engine Plant No. 154 was first observed on [REDACTED] Since that time, the plant has been enlarged until it is now nearly double its original size. Building numbers 2, 4, 5, 6, 7, 9, and 13 (see line drawing) were present in [REDACTED] A machine shop (No. 3) and the engine test and assembly building (No. 8) were also part of the original plant; however, both buildings have been substantially expanded. The plant area, which was only partially secured by a fence in [REDACTED], is now encircled by a wall. There are also three separately secured areas within the plant. The plant is well served by both road and rail. There are approximately 24,500 linear feet of hard-surfaced roads in the plant with an average width of [REDACTED]. The paving material is probably bituminous. There are also two large surfaced areas adjacent to building numbers 10 and 15. Approximately 7,800 feet of standard-gage railroad track are also located in the plant complex.

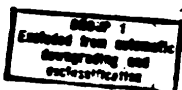
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3. All measurements have been made by the NPIC Technical Intelligence Division, with the exception of the height measurements. These measurements were made by the CIA/PID project analyst. They should be considered as approximate and must not be taken as official NPIC measurement data. The NPIC/TID measurements are considered to be accurate within  $\pm 10$  feet or  $\pm 10$  percent, whichever is greater. All measurements are provided on the enclosed line drawing and table.

Declass Review by NIMA/DOD



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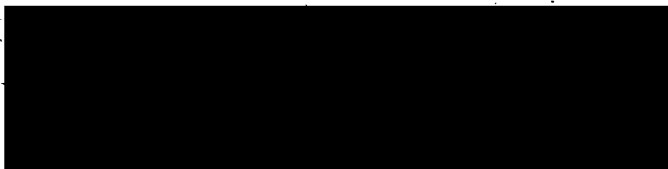
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4. The photo analyst for this project was [REDACTED] who may be contacted on extension 2547 should there be any questions regarding this project. This project is complete as of the date of this memorandum.

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Enclosures:

- 1 Photo Enlargement  
(CIA/PID/IB-P-480/65)
- 1 Line Drawing  
(CIA/PID/IB-P-481/65)

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APPROXIMATE BUILDING DIMENSIONS  
VORONEZH AIRCRAFT ENGINE PLANT NO. 154  
ITEM NUMBERS ARE KEYED TO FIGURE 1

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Building Number	Dimensions	Square Feet	Cubic Feet
1		100,000	
2		290,000	
3		30,000	
4		404,600	
5		17,500	
6		214,200	
7	430 x 75 x 30	32,250	967,500
8	A-240 x 80 x 40	19,200	768,000
9	B-460 x 240 x 20	110,400	2,208,000
10	C-240 x 40 x 25	9,600	240,000
11		121,800	
12	B-225 x 30 x 25	6,750	168,750
13		27,300	
14	A-600 x 45 x 20	27,000	540,000
15		189,475	
16		19,875	
17	B-140 x 55 x 35	7,700	269,500
18	Irregular x 20	48,150	963,000
19	A-250 x 80 x 25	20,000	500,000
20	B-250 x 215 x 20	53,750	1,075,000
21	C-250 x 90 x 30	22,500	675,000
22	A-160 x 20 x 20	3,200	64,000
23		73,600	
24		16,875	
25		34,800	
26	B-120 x 35 x 25	4,200	105,000
27		6,650	
28		7,800	
29		14,400	
30	A-200 x 30 x 20	6,000	120,000
31	B-270 x 140 x 10	37,800	378,000

TOTAL Square Feet of Numbered Bldgs 1,977,375

TOTAL Cubic Feet of Numbered Bldgs - - - - - 42,182,300

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